

1 ATRRYYLGA V ELSWDYMQSD LGELPVDARF PPRVPKSFPF NTSVVYKCTL
 51 FVEFTVHLEN IAKPRPPWMG LLGPTIQAEV YDTVVITLKN MASHPVSLHA
 101 VGVSYWKASE GA EYDDQTSQ REKEDDKVFP GGSHTYVWQV LKENGPMASD
 151 PLCLTYSYLS HVDLVKDLNS GLIGALLVCR EGSLAKEKTQ TLHKFILLFA
 201 VFDEGKSWHS ETKNSLMQDR DAASARAWPK MHTVNGYVNR SLPGLIGCHR
 251 KSVYWHVIGM GTTPEVHSIF LEGHTFLVRN HRQASLEISP ITFLTAQTLL
 301 MDLGQFLLFC HISSHQHDGM EAYVKVDSCP EEPQLRMKNN EEAEDYDDDL
 351 TDSEMDVVRF DDDNSPSFIQ IRSVAKKHPK TWVHYIAAEE EDWDYAPLVL
 401 APDDRSYKSQ YLNNGPQRIG RYKVKVREMA YTD ETKTRE AIQHESGILG
 451 PLYGEVGD T LLIIFKNQAS RPYNIYPHGI TDVRPLYSR L PKGVKHLKD
 501 FPILPGEIFK YKWTVTVEDG PTKSDPRCLT RYSSSEVNME RDLASGLIGP
 551 LLICYKESVD QRGNQIMSDK RNVLFSVFD ENRSWYL TEN IQRFLPNPAG
 601 VQLEDPEFQA SNIMHSINGY VFDSLQLSVC LHEVAYWYIL SIGAQTDFLS
 651 VFFSGYTFKH K MVYEDTLTL FPFSGETVFM SMENPGLWIL GCHNSDFRNR
 701 GMTALLKVSS CDKNTGDY Y E DSYEDISAYL LSKNNAIEPR SFSQNPPVLK
 751 RHQREITRTT LQSDQEEIDY DDTISVEMKK EDFDIYDEDE NQSPRSFQKK
 801 TRHYFIAAVE RLWDYGMSSS PHVLNRNAQS GSV PQFKKV FQEFTDGSFT
 851 QPLYRGELNE HLGLLGPYIR AEVEDNIMVT FRNQASRPYS FYSSLISYEE
 901 DQRQGAEP RK NFVKPNETKT YFWKVQHMA PTKDEFDCKA WAYFSDVDLE
 951 KDVHSGLIGP LLVCHTNTLN PAHGRQVT VQ EFALFFTIFD ETKSWYFTEN
 1001 MERNCRAPCN IQMEDPTFKE NYRFHAINGY IMDTLPGLVM AQDQIRWYL
 1051 LSMGSNENIH SIHFSGHVFT VRKKEEYKMA LYNLYPGVFE TVEMPLSKAG
 1101 IWRVECLIGE HLHAGMSTLF LVYSNKCQTP LGMASGHIRD FQITASGQYG
 1151 QWAPKLARLH YSGSINAWST KEPFSWIKVD LLAPMIHGI KTQGARQKFS
 1201 SLYISQFIIM YSLDGKKWQT YRGNSTGTLM VFFGNVDSSG IKHNIFNPPI
 1251 IARYIRLHPT HYSIRSTLRM ELMGCDLNSC SMPLGMESKA ISDAQITASS
 1301 YFTNMFATWS PSKARLHLQG RSNAWRPQVN NPKEWLQVDF QKTMKVTGVT
 1351 TQGVKSLT S MYVKEFLISS SQDGHQWTLF FQNGKVKV FQ GNQDSFTPVV
 1401 NSLDPPLLTR YLRIHPQSWV HQIALRMEVL GCEAQDLY

Fig. 1

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GGCAATGGAG CGTGAAGAAG GGCCCCAGGG CTGACCCCGG CAAACGTGAC (50)
CCGGGGCTCC GGGGTGACCC AGGCAAGCGT GGCCAAGGGG CCCGTGGGTG (100)
ACACAGGCAA CCCTGACAAA GGCCCCCAG GAAAGACCCC CGGGGGGCAT (150)
CGGGGGGGTG TTGGCGGGTC ATGGGGGGGG CGGGTCATGC CGCGCATTC (200)
TGGAAAAAGT GGAGGGGGCG TGGCCTTCCC CCCGCGGCC CCTAGCCCC (250)
CCGCAGAGAG CGGCGCAACG GCGGGCGAGC GGCGGGGGGT CGGGGTCCGC (300)
GGGCTCCGGG GGCTGCGGGC GGTGGATGGC GGCTGGCGTT CCGGGGATCG (350)
GGGGGGGGTC GGGGGGCGCT GCGCGGGCGC AGCCATGCGT GACCGTGATG (400)
AG (402)

Fig._2

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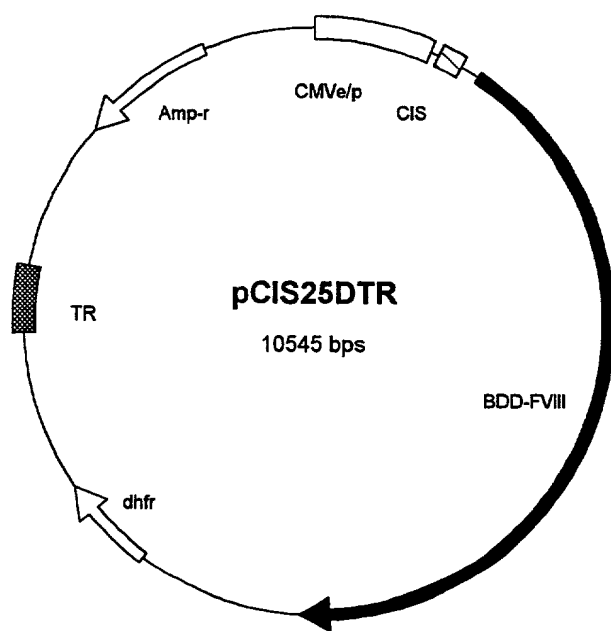


Fig._3

Fig._4A

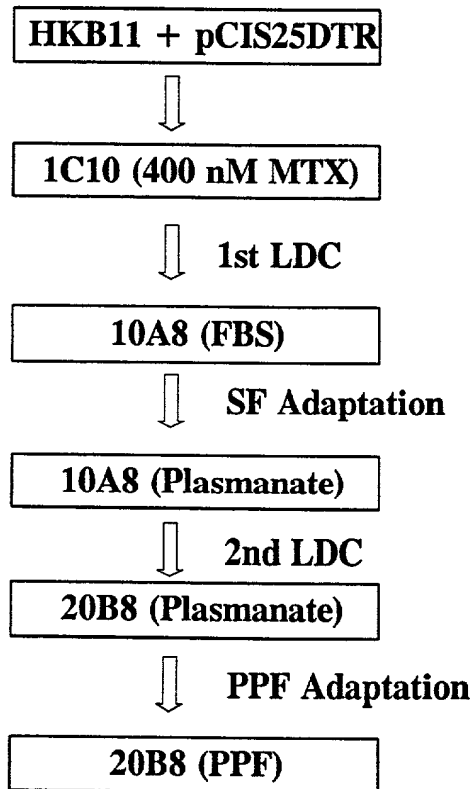
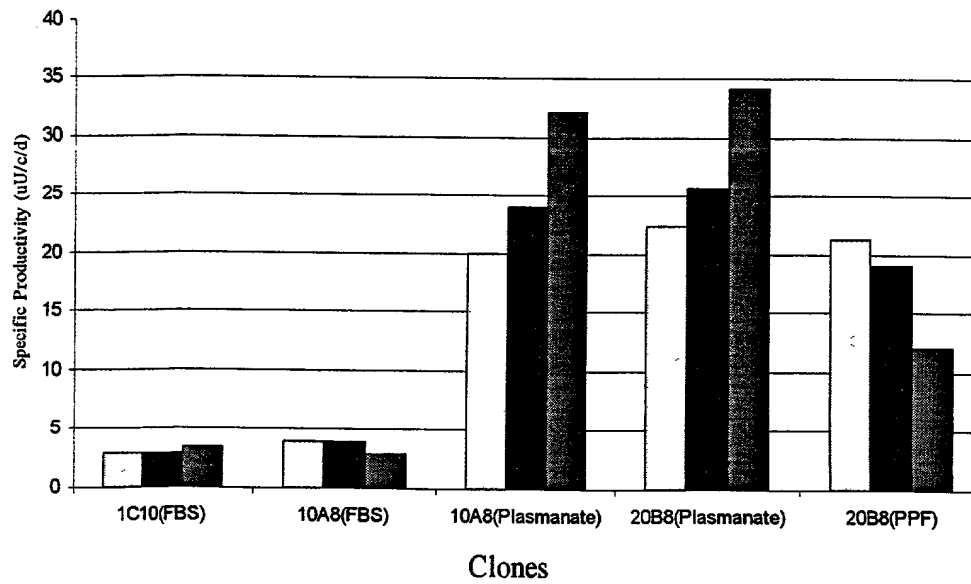


Fig._4B



Volumetric Productivity of HKB cells

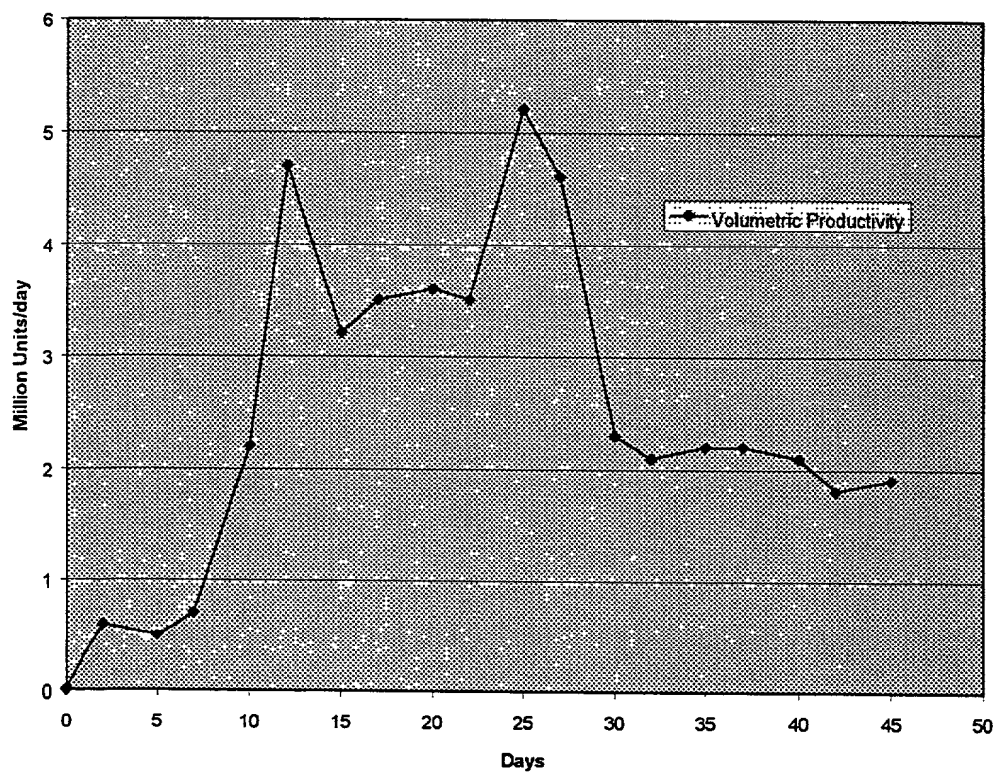


Fig._5